Curriculum Vitae

GONG, JIE

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EDUCATION

2005.8 - 2009.12Ph.D. in Atmospheric Sciences, School of Marine and Atmospheric Sciences, Stony Brook University (Advisor: Prof. Marvin A. Geller) Thesis topic: Characteristics of two gravity wave sources in the US highresolution radiosonde data

2001.9-2005.6 B.S., Atmospheric Sciences, School of Physics, Peking University (PKU)

RESEARCH INTERESTS

- Gravity Wave Sources and Propagation Properties
- Parameterizations of Gravity Wave Drag into General Circulation Models
- Dynamic Coupling between the Troposphere and the Lower Stratosphere

ACADEMIC RESEARCH EXPERIENCE

2010.3 – Present	Postdoc scholar, Jet Propusion Laboratory, California Institute of Technology, Pasadena, CA
	Conducting research on retrieving information of gravity wave variance and propagation from AIRS data
2006 – 2009	Ph.D. thesis project on Gravity Wave Sources and Propagation Properties, Stony Brook University, NSF funding ATM – 0413747
2004 – 2005	Project on Modified Zonal Index for Westly Belt, the Monsoon and Environment Research Group (MERG), PKU
2004 – 2005	Project on creating database and data analysis for Automatic Weather Station (AWS), Dept. of Atmospheric Sciences, PKU

AWARDS AND SCHOLARSHIPS

2006.2 - 2009.12	Full Research Assistant Scholarship, Stony Brook Univ.
2005.9 - 2006.1	Full Teaching Assistant Scholarship, Stony Brook Univ.
2004	Mary-Kay Scholarship & Leading Honored Students of PKU
2003	Wu-Si Scholarship & Leading Honored Students of PKU
2002	Honored Student of PKU

PEER-REVIEWED PAPERS

Gong, J. and Geller, M. A. (2010), Vertical fluctuation energy in US high vertical resolution radiosonde data as an indicator of convective gravity wave sources, Journal of Geophysical Research, doi: 10.1029/2009JD12265, in press

Geller, M. A. and Gong, J. (2010), Gravity wave kinetic, potential and vertical fluctuation energies as indicators of different frequency gravity waves, Journal of Geophysical Research, doi: 10.1029/2009JD012266, in press

Gong, J., Geller, M. A. and Wang, L. (2008), Source spectra information derived from US high-resolution radiosonde data, Journal of Geophysical Research, 113, D10106, doi: 10.1029/2007JD009252

CONFERENCE PRESENTATIONS

Gong, J., D. L. Wu and S. D. Eckermann (talk, 2010), Gravity wave properties and propagation derived from AIRS radiance variances, AIRS spring science meeting, April 21 – 23, 2010, Pasadena, CA

Gong, J. and M. A. Geller (talk, 2009), Convective sources of gravity waves from US highresolution radiosonde data, AGU joint Assembly, May. 24 – 27, 2009, Toronto, Canada (substituted by M.A. Geller as the presenter)

Gong, J. and M. A. Geller (talk, 2009), Identifications and climatology of convective sources for generating gravity waves in the ascent rate profiles in US high-resolution radiosonde data, AMS annual meeting, Jan. 10 – 16, 2009, Phoenix, AZ

Gong, J., Geller, M. A. and Wang, L. (poster, 2008), Source spectra information derived from US high-resolution radiosonde data, SPARC workshop on gravity wave momentum budget, Mar. 26 - 27, 2008, Toronto, Canada

Gong, J. and Geller, M.A. (poster, 2008), Indications of convective and spontaneous emission sources for gravity waves from US high-resolution radiosonde data, SPARC workshop on gravity wave momentum budget, Mar. 26 – 27, 2008, Toronto, Canada

PROFESSIONAL SERVICES

Reviewer of Journal of Geophysical Research

WORKING EXPERIENCE AND APPOINTMENTS

2006.1 - 2009.12	Research assistant	of Prof. Marvin	Geller, Stony	Brook Univ.
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2008.2 - 2008.5Teaching Practicum of Advanced Atmospheric Dynamics for undergraduates (ATM 346), and Atmospheric Dynamics for graduates (MAR 594), Stony Brook Univ.

2005.9 - 2006.1Teaching assistant of Synoptic Meteorology (ATM 347), Stony Brook Univ

2001.9-2005.6 Vice-monitor of the undergraduate class of Department of Atmospheric Sciences, School of Physics, PKU

TECHNOLOGIES

Operating Systems: Linux, Unix, Mac, Windows

Languages: Fortran, IDL, Matlab, GrADs, Shell scripting, LaTeX